

CLAIMS

- 1 Vane actuating apparatus for adjusting the angle of incidence of a set of variable angle vanes in a gas turbine engine; the apparatus comprising a plurality of vane actuator levers attached at one end to a respective vane and at the other end to actuation means for moving the vanes in unison about their respective pivot axis, each lever having an interlocking connection means for pivotally connecting the lever with respect to its respective vane in such a way that the lever is capable of being attachably/detachably mounted with respect to the vane at a first angular position and retained in interlocking engagement for pivotal movement with respect to the vane at a second angular position or range of positions.
- 2 Apparatus as claimed in Claim 1 wherein the said connection means comprises a hinge including a hinge pin and a socket for receiving the hinge pin.
- 3 Apparatus as claimed in Claim 2 wherein the hinge pin is fixed with respect to the lever and the socket is fixed with respect to the vane
- 4 Apparatus as claimed in Claim 3 wherein the socket is open on one side for receiving or releasing the hinge pin along an insertion direction perpendicular to the hinge axis.
- 5 Apparatus as claimed in Claim 4 wherein width dimension of the hinge pin varies across the hinge axis so that the pin may be released and received only when the lever is in the said first angular position.
- 6 Apparatus as claimed in Claim 5 wherein the hinge pin comprises a pair of parallel flat surfaces on opposites sides of the pin circumference such that the width dimension of the pin between the flat surfaces is less than the pin diameter and substantially the same as the open end of the socket through

which it is released and received.

- 7 Apparatus as claimed in any of Claims 2 to 6 wherein the socket comprises a generally U-shaped bracket having a pair of open ends which receive opposite ends of the hinge pin.
- 8 A vane actuating lever for adjusting the angle of incidence of a variable angle stator vane in a gas turbine engine; the lever comprising a first end for attachment to a respective stator vane and a second end for attachment to a vane actuator ring, the lever having at least one integral hinge pin for pivotally connecting the lever with respect to its respective vane in such a way that the lever is capable of being attachably/detachably mounted with respect to the vane at a first angular position and retained in interlocking engagement for pivotal movement with respect to the vane at a second angular position or range of positions.
- 9 Vane actuating apparatus substantially as hereinbefore described and with reference to the accompanying drawings.
- 10 A vane actuating lever substantially as hereinbefore described and with reference to the accompanying drawings.